





## UNITED STAT DEPARTMENT OF COMMERCI

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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. 09/183,824 10/30/98 RAJU P1097R1 **EXAMINER** HM22/0620 JEFFREY S. KUBINEC SCHWADRON, R GENENTECH INC ART UNIT PAPER NUMBER 1 DNA WAY SOUTH SAN FRANCISCO CA 94080-4990 1644

**DATE MAILED:** 

06/20/00

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

## Office Action Summary

Application No. 09/183,824

Examiner

Ron Schwadron, Ph.D.

Group Art Unit 1644

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Responsive to communication(s) filed on	·
☐ This action is <b>FINAL</b> .	
☐ Since this application is in condition for allowance except for formal main accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11;	
A shortened statutory period for response to this action is set to expire is longer, from the mailing date of this communication. Failure to respond application to become abandoned. (35 U.S.C. § 133). Extensions of time 37 CFR 1.136(a).	d within the period for response will cause the
Disposition of Claims	
X Claim(s) 1-44	is/are pending in the application.
Of the above, claim(s) 1-9, 17-35, 37, 39-41, and 43	is/are withdrawn from consideration.
Claim(s)	is/are allowed.
	is/are rejected.
Claim(s)	is/are objected to.
Claims are subject to restriction or election requirement.	
Application Papers	
☐ See the attached Notice of Draftsperson's Patent Drawing Review,	PTO-948.
☐ The drawing(s) filed on is/are objected to by	the Examiner.
☐ The proposed drawing correction, filed on is ☐ approved ☐ disapproved.	
☐ The specification is objected to by the Examiner.	
$\square$ The oath or declaration is objected to by the Examiner.	
Priority under 35 U.S.C. § 119	
Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).	
☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priori	ity documents have been
received.	
received in Application No. (Series Code/Serial Number)	
received in this national stage application from the Internation	nal Bureau (PCT Rule 17.2(a)).
*Certified copies not received:	5 H C C S 440(-)
Acknowledgement is made of a claim for domestic priority under 3!	5 U.S.C. § 119(e).
Attachment(s)	
□ Notice of References Cited, PTO-892	
☐ Information Disclosure Statement(s), PTO-1449, Paper No(s).	<del></del>
<ul><li>☐ Interview Summary, PTO-413</li><li>☐ Notice of Draftsperson's Patent Drawing Review, PTO-948</li></ul>	
☐ Notice of Informal Patent Application, PTO-152	
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SEE OFFICE ACTION ON THE FOLLO	Will AGES

- 1. Applicant's election without traverse of Group B, claims 10-16,36,38,42,44 in Paper No. 9 is acknowledged.
- 2. Claims 1-7,20,35,37,39,41,43 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in Paper No. 9.
- 3. Claims 10-16,36,38,42,44 are under consideration.
- 4. The information disclosure statement filed 7/7/1999 fails to comply with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609. Said IDS was filed after the Office Action mailed 6/24/99. The information disclosure statement filed fails to comply with 37 CFR 1.97(c) because it lacks a statement as specified in 37 CFR 1.97(e) and/or it fails to comply with 37 CFR 1.97(c) because it lacks the fee set forth in 37 CFR 1.17(p). It has been placed in the application file, but the information referred to therein has not been considered as to the merits. Applicant is advised that the date of any re-submission of any item of information contained in this information disclosure statement or the submission of any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the statement, including all certification requirements for statements under 37 CFR 1.97(e). See MPEP § 609 ¶ C(1).
- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 10-16,36,38,42,44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Paulson et al. (US Patent 5,047,335) in view of Weitzhandler et al and prior art disclosed in the specification (page 16).

Paulson et al. teach methods of producing proteins with a particular glycosylation pattern and said proteins (see columns 2 and 3). Paulson et al. teach that proteins with

altered glycosylation patterns are useful for a variety of purposes including diagnostic and research purposes (see column 3). Paulson et al. do not specifically teach the claimed composition of a glycoprotein containing a CH2 domain containing G-2 oligosaccharide which is substantially free of CH2 domain containing other oligosaccharides. Weitzhandler et al. teach that antibodies contain a CH2 domain and that oligosaccharides are attached at said CH2 domain (see page 1670). Weitzhandler et al. teach enzymatic digestion can be used to release various oligosaccharide molecules from antibodies (see page 1670). Weitzhandler et al. teach that treatment with PNGase followed by treatment with Jack bean enzyme would result in conversion of structure 1 depicted in figure 2 into a G-2 oligosaccharide (see page 1674, second column). The specification discloses that a variety of therapeutically useful antiCD20 antibodies were known in the art (see cited references, specification, page 16). It would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made to have created the claimed inventions because Paulson et al. teach that proteins with altered glycosylation patterns are useful for a variety of purposes including diagnostic and research purposes while Weitzhandler et al teach that treatment with PNGase followed by treatment with Jack bean enzyme would result in G-2 containing oligosaccharide antibody molecules. One of ordinary skill in the art would have been motivated to do the aforementioned to created altered oligosaccharide versions of known therapeutically useful antibodies such as antiCD20 antibodies in order to assess the role of oligosaccharide function in the therapeutic effect seen when said antibody was administered. The G-2 containing antibody would be administered in the form of a pharmaceutical composition.

- 6. No claim is allowed.
- 7. Papers related to this application may be submitted to Group 1600 by facsimile transmission. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). Papers should be faxed to Group 1600 at (703) 308-4242.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Ron Schwadron whose telephone number is (703) 308-

4680. The examiner can normally be reached Monday through Thursday from 7:30 to 6:00. A message may be left on the examiners voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ms. Christina Chan can be reached on (703) 308-3973. Any inquiry of a general nature or relating to the status of this application should be directed to the Group 1600 receptionist whose telephone number is (703) 308-0196.

Ron Schwadron, Ph.D. **Primary Examiner** 

Art Unit 1644

**RONALD B. SCHWADRON PRIMARY EXAMINER** 

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